

09310000 GOOSEBERRY CREEK NEAR SCOFIELD, UT

LOCATION.--Lat 39°42'57", long 111°17'58", in NW¹/4 SE¹/4 SW¹/4 sec. 6, T. 13 S., R. 6 E., Sanpete County, Hydrologic Unit 14060007, on left bank 300 ft downstream from old Mammoth Dam, 5.5 mi upstream from mouth, and 7 mi west of Scofield.

DRAINAGE AREA.--16.8 mi².

PERIOD OF RECORD.--October 1930 to September 1931, May 1940 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 8,400 ft above NGVD of 1929, from topographic map. October 1930 to September 1931, at different datum, May 1940 to September 1954, at datum 0.50 ft higher.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Transmountain diversion above station for irrigation in Sevier River basin, part of which is water diverted into Gooseberry Creek from Boulger Creek. A small reservoir on Gooseberry Creek 5 mi above station, capacity about 1,900 acre-ft is used to regulate these diversions. Flow also affected by small reservoir 1 mi above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 419 ft³/s, May 22, 1984; maximum gage height, 3.37 ft May 27, 1986; no flow Nov 11, 1964, Sep 23-26, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 114 ft³/s, May 5, gage height, 1.82 ft; minimum daily discharge, 0.46 ft³/s, Feb 15.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	4.3	e3.7	1.8	e0.52	e0.60	2.9	79	18	5.3	2.1	1.7
2	2.0	3.3	e3.5	e1.6	e0.50	e0.64	3.5	68	18	5.3	2.5	1.8
3	1.9	3.0	3.3	1.5	e0.52	e0.68	4.8	77	17	5.3	2.7	1.9
4	1.9	2.8	3.5	1.5	e0.50	e0.72	6.0	80	17	5.6	2.9	1.9
5	1.9	2.7	e3.4	e1.4	e0.50	e0.75	7.5	89	16	5.5	3.7	1.8
6	1.9	2.9	e3.3	1.4	e0.52	0.78	9.5	92	15	5.2	3.0	1.9
7	1.9	4.3	e3.2	1.5	e0.50	e0.72	10	88	14	4.8	2.7	2.2
8	2.0	4.5	e3.1	1.7	0.49	e0.74	10	70	13	4.3	2.4	3.5
9	2.1	3.7	3.1	1.9	0.53	e0.70	11	60	13	3.9	2.1	3.4
10	2.1	3.4	3.1	1.9	e0.50	0.65	14	58	12	3.8	2.0	2.8
11	2.1	3.3	3.2	1.8	e0.52	e0.65	15	56	12	3.9	2.0	3.7
12	2.1	3.2	3.0	1.8	e0.52	e0.60	17	52	12	3.8	1.9	5.6
13	2.1	3.1	3.0	e1.6	e0.50	0.62	19	50	11	3.6	1.7	4.7
14	2.1	2.8	2.9	e1.4	0.48	e0.70	25	52	11	3.6	1.8	3.2
15	2.1	2.7	e2.8	e1.4	e0.46	0.83	30	47	10	3.6	1.7	2.5
16	2.1	2.6	e2.7	e1.3	0.48	e0.74	28	46	10	3.9	1.7	2.9
17	2.1	2.7	2.8	e1.2	0.54	e0.78	20	46	9.6	3.9	1.7	4.8
18	2.1	2.6	2.8	e1.2	0.60	e0.84	15	45	9.3	4.9	1.7	3.9
19	2.1	2.6	2.7	e1.1	0.59	e0.84	13	42	9.1	4.6	1.7	3.4
20	2.1	2.5	2.7	e1.0	e0.58	e0.88	13	39	9.2	4.3	1.8	2.7
21	2.1	2.8	2.7	e0.90	e0.56	0.92	11	39	9.0	3.9	1.7	2.5
22	2.1	4.0	e2.5	e0.85	e0.56	1.1	12	39	7.5	4.0	1.7	2.2
23	2.2	4.4	e2.2	e0.80	e0.55	1.2	17	36	6.3	4.0	1.7	2.1
24	2.1	3.6	e1.9	e0.75	e0.55	1.4	29	32	6.1	4.3	1.6	2.2
25	2.1	4.0	e1.6	0.73	e0.56	1.3	42	27	6.1	4.3	1.5	2.1
26	2.1	3.7	e1.4	0.71	e0.55	e1.2	59	25	6.4	4.2	1.5	2.1
27	2.2	3.7	1.2	0.72	e0.54	e1.1	55	23	6.2	4.2	1.4	2.2
28	2.2	3.9	1.3	e0.70	e0.58	1.2	36	21	5.9	3.6	1.3	2.1
29	2.2	4.0	1.4	e0.65	---	1.6	44	20	5.7	3.0	1.5	2.5
30	2.4	4.0	1.8	e0.60	---	1.7	72	19	5.4	2.4	1.4	2.8
31	4.7	---	1.7	e0.55	---	2.2	---	18	---	2.2	1.6	---
TOTAL	67.3	101.1	81.5	37.96	14.80	29.38	651.2	1535	320.8	129.2	60.7	83.1
MEAN	2.171	3.370	2.629	1.225	0.529	0.948	21.71	49.52	10.69	4.168	1.958	2.770
MAX	4.7	4.5	3.7	1.9	0.60	2.2	72	92	18	5.6	3.7	5.6
MIN	1.9	2.5	1.2	0.55	0.46	0.60	2.9	18	5.4	2.2	1.3	1.7
AC-FT	133	201	162	75	29	58	1290	3040	636	256	120	165

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 2002, BY WATER YEAR (WY)

MEAN	4.834	4.534	3.734	3.352	3.357	4.244	18.47	100.5	59.31	13.50	7.066	4.976
MAX	13.5	11.6	9.00	7.83	7.37	10.6	55.4	239	239	47.9	16.7	14.1
(WY)	1983	1983	1942	1984	1984	1972	1942	1952	1983	1983	1965	1965
MIN	0.65	1.92	0.92	0.22	0.53	0.95	3.37	12.9	9.35	3.75	1.96	1.89
(WY)	1979	1991	2001	2001	2002	2002	1975	1977	1992	1977	1977	1977

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1941 - 2002

ANNUAL TOTAL	4569.90	3112.04	19.08
ANNUAL MEAN	12.52	8.526	40.7
HIGHEST ANNUAL MEAN			4.65
LOWEST ANNUAL MEAN			1977
HIGHEST DAILY MEAN	141	May 1	419
LOWEST DAILY MEAN	0.16	Jan 9	0.00
ANNUAL SEVEN-DAY MINIMUM	0.18	Jan 5	0.06
ANNUAL RUNOFF (AC-FT)	9060	6170	13820
10 PERCENT EXCEEDS	28	24	49
50 PERCENT EXCEEDS	3.1	2.7	5.0
90 PERCENT EXCEEDS	0.43	0.65	2.5

e Estimated